



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

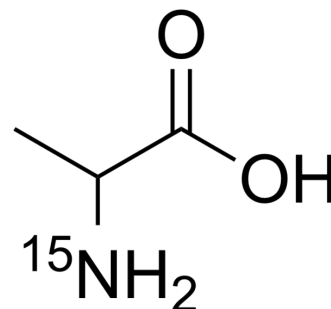
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

DL-Alanine-¹⁵N

Cat. No.:	HY-N2362S5
CAS No.:	71261-64-8
Molecular Formula:	C ₃ H ₇ ¹⁵ NO ₂
Molecular Weight:	90.09
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DL-Alanine- ¹⁵ N is the ¹⁵ N labeled DL-Alanine[1]. DL-alanine, an amino acid, is the racemic compound of L- and D-alanine. DL-alanine is employed both as a reducing and a capping agent, used with silver nitrate aqueous solutions for the production of nanoparticles. DL-alanine can be used for the research of transition metals chelation, such as Cu(II), Zn(II), Cd(II). DL-alanine, a sweetener, is classed together with glycine, and sodium saccharin. DL-alanine plays a key role in the glucose-alanine cycle between tissues and liver[2][3][4][5][6][7].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.
- [2]. Amrallah AH, et al. Mixed ligand complexes of benzimidazole and pyrimidine hydroxy azo dyes with some transition metals and glycine, dl-alanine or dl-leucine. Talanta. 1998 Aug;46(4):491-500.
- [3]. Eder José Guidelli, et, al. Synthesis of silver nanoparticles using dl-alanine for ESR dosimetry applications. Radiation Physics and Chemistry. Volume 81, Issue 3, 2012: Pages 301-307.
- [4]. Rashid M, et al. Biosynthesis of Self-Dispersed Silver Colloidal Particles Using the Aqueous Extract of P. peruviana for Sensing dl-Alanine[J]. Isrn Nanotechnology, 2014, 2014:1-7.
- [5]. Tapper DN, et al. Taste stimuli: a behavioral categorization. Science. 1968 Aug 16;161(3842):708-10.
- [6]. Yamaguchi M, et al. Terahertz absorption spectra of L-, D-, and DL-alanine and their application to determination of enantiometric composition[J]. Applied Physics Letters, 2005, 86(5): 053903.
- [7]. Yamamoto T, et al. Gustatory reaction time to various sweeteners in human adults. Physiol Behav. 1985 Sep;35(3):411-5.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA